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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/899,326	07/05/2001	Carl P. Schulte	82464RLO	2611	
7590 02/09/2006			EXAMINER		
Thomas H. Close			THOMPSON, JAMES A		
Patent Legal St Eastman Kodal		ART UNIT	PAPER NUMBER		
343 State Stree		2624			
Rochester, NY	14650-2201	DATE MAILED: 02/09/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)				
Office Action Summary		09/89	9,326	SCHULTE ET AL.				
		Exami	ner	Art Unit				
		James	A. Thompson	2624				
Period fo	The MAILING DATE of this communion Reply	cation appears on	the cover sheet with t	he correspondence ad	ldress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINIOR OF THE MINIOR OF THE MINIOR OF THE MONTHS FROM THE MINIOR OF THE MONTHS FROM THE MINIOR OF THE MONTHS FROM THE MONTHS FROM THE MONTHS FROM THE MONTHS FROM THE MONTHS AND THE MONTHS AN	AILING DATE OF of 37 CFR 1.136(a). In no unication. Itutory period will apply ar will, by statute, cause the	THIS COMMUNICAT be event, however, may a reply and will expire SIX (6) MONTHS application to become ABAND	FION. be timely filed from the mailing date of this cooned (35 U.S.C. § 133).				
Status								
1)[🖂	Responsive to communication(s) file	d on <i>15 Novembe</i>	r 2005 and 12 Octobe	er 2005.				
· —	This action is <b>FINAL</b> . 2b) $\boxtimes$ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1.4 and 5 is/are pending in	the application.						
,—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[]	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1,4 and 5</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[	Claim(s) are subject to restrict	tion and/or election	n requirement.					
Applicat	ion Papers							
9)[]	The specification is objected to by the	e Examiner.						
10)⊠	The drawing(s) filed on 05 July 2001	is/are: a)⊠ acce	pted or b)□ objected	I to by the Examiner.				
	Applicant may not request that any object	ction to the drawing(	s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is re-	quired if the drawing(s) i	is objected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Examiner	Note the attached O	ffice Action or form P	ΓΟ-152.			
Priority	under 35 U.S.C. § 119							
•	Acknowledgment is made of a claim  ☐ All b)☐ Some * c)☐ None of:	for foreign priority	under 35 U.S.C. § 11	19(a)-(d) or (f).				
	1. Certified copies of the priority	documents have l	peen received.					
	2. Certified copies of the priority							
	3. Copies of the certified copies	•		ceived in this National	Stage			
	application from the Internatio	•	• • •					
* (	See the attached detailed Office actio	n for a list of the c	entitled copies not rec	ceivea.				
Attachmer	it(s)		_					
	ce of References Cited (PTO-892)	TO 040)	4) Interview Sum	mary (PTO-413) lail Date				
3) Infor	ce of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date		_	mal Patent Application (PT)	O-152)			

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### DETAILED ACTION

## Response to Arguments

1. Applicant's arguments filed 12 October 2005 have been fully considered but they are not persuasive. Applicant's arguments have been fully addressed in the Advisory Action dated 29 October 2005 and mailed 02 November 2005.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes (US Patent 6,345,128 B1) in view of Beretta (US Patent 5,901,243).

Regarding claim 1: Stokes discloses providing a plurality of tone scale correcting transforms (figure 1(104) and column 3, lines 31-36 of Stokes), each such transform being unique to a different exposure condition (column 3, lines 22-27 and lines 35-39 of Stokes) and which corrects tone scale for a digital image captured by an image capture device (column 2, lines 53-55 and lines 60-63 of Stokes) for such unique exposure conditions (column 3, lines 15-20 of Stokes) and to be printed by the printer (column 2, lines 55-59 of Stokes); applying the plurality of transforms to the digital image (figure 1(106) and

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column 4, lines 33-37 of Stokes) and printing (column 2, lines 55-57 of Stokes) a plurality of images corresponding to the digital image on which the transforms were applied (column 4, lines 37-39 of Stokes); and determining from the printed plurality of images the most satisfying printed image to the user (column 6, lines 7-12 of Stokes) which corresponds to a particular transform to be used to make visual images from the digital image (column 7, lines 21-27 of Stokes).

Stokes does not disclose expressly providing a plurality of exposure correcting transforms which correct exposure for the captured digital image.

Beretta discloses iteratively computing exposure and tone scale correcting transforms ("tone reproduction curves") which correct exposure for a captured digital image (column 3, lines 55-64 of Beretta).

Stokes and Beretta are combinable because they are from the same field of endeavor, namely tone correction for digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to iteratively compute both exposure and tone scale correcting transforms, as taught by Beretta, in the method taught by Stokes. The motivation for doing so would have been that exposure is another attribute that can be adjusted to further improve the resultant image and exposure can be controlled independently of the tone reproduction (column 3, lines 1-5 of Beretta). Therefore, it would have been obvious to combine Beretta with Stokes to obtain the invention as specified in claim 1.

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4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes (US Patent 6,345,128 B1) in view of Shalit (US Patent 5,345,315) and Beretta (US Patent 5,901,243).

Regarding claim 4: Stokes discloses providing a plurality of tone scale correcting transforms (figure 1(104) and column 3, lines 31-36 of Stokes), wherein said transforms are nonlinear (column 3, lines 52-67 of Stokes), each such nonlinear transform being unique to a different exposure condition (column 3, lines 22-27 and lines 35-39 of Stokes) and which corrects tone scale for a digital image captured by an image capture device (column 2, lines 53-55 and lines 60-63 of Stokes) for such unique exposure conditions (column 3, lines 15-20 of Stokes) and to be printed by the printer (column 2, lines 55-59 of Stokes); applying the plurality of nonlinear transforms to the digital image (figure 1 (106) and column 4, lines 33-37 of Stokes) and printing on a particular printer (column 2, lines 55-57 of Stokes) such plurality of visual digital images corresponding to the digital image on which the nonlinear transforms were applied (column 4, lines 37-39 of Stokes); and determining the most satisfying printed image to the user (column 6, lines 7-12 of Stokes) which corresponds to a particular nonlinear transform to be used to make visual images from the digital image (column 7, lines 21-27 of Stokes).

Stokes does not disclose expressly producing a plurality of visual digital images on a display so that the user can correlate the difference between display and printed images; and providing a plurality of exposure correcting transforms which correct exposure for the captured digital image.

Shalit discloses displaying a visual digital image on a display (column 7, lines 36-41 of Shalit) so that the difference

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between the image on the display and the printed image can be correlated (column 7, lines 45-48 of Shalit).

Stokes and Shalit are combinable because they are from the same field of endeavor, namely tone correction for digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to display the plurality of digital images taught by Stokes on a display so that the difference between the image on the display and the printed image can be correlated, as taught by Shalit, by the user performing the overall method. The motivation for doing so would have been to ensure that the tone reproduction curve is such that the printed output is the same as the image that a user would see displayed on a monitor (column 6, lines 34-37 of Shalit). Therefore, it would have been obvious to combine Shalit with Stokes.

Stokes in view of Shalit does not disclose expressly providing a plurality of exposure correcting transforms which correct exposure for the captured digital image.

Beretta discloses iteratively computing exposure and tone scale correcting transforms ("tone reproduction curves") which correct exposure for a captured digital image (column 3, lines 55-64 of Beretta).

Stokes in view of Shalit is combinable with Beretta because they are from the same field of endeavor, namely tone correction for digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to iteratively compute both exposure and tone scale correcting transforms, as taught by Beretta, in the method taught by Stokes in view of Shalit, said transforms being nonlinear, as taught by Stokes. The motivation for doing so would have been that

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exposure is another attribute that can be adjusted to further improve the resultant image and exposure can be controlled independently of the tone reproduction (column 3, lines 1-5 of Beretta). Therefore, it would have been obvious to combine Beretta with Stokes in view of Shalit to obtain the invention as specified in claim 4.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes (US Patent 6,345,128 B1) in view of Shalit (US Patent 5,345,315), Beretta (US Patent 5,901,243), and Gilman (US Patent 5,913,014).

Regarding claim 5: Stokes in view of Shalit and Beretta does not disclose expressly that the image capture device is a digital camera and the medium is a photographic silver halide element, ink jet receiver, or thermal print medium.

Gilman discloses an image capture device that is a digital camera (column 3, lines 11-13 of Gilman), and a medium that is a photographic silver halide element, ink jet receiver, or thermal print medium (column 3, lines 16-19 of Gilman).

Stokes in view of Shalit and Beretta is combinable with Gilman because they are from the same field of endeavor, namely digital image transforms. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to specifically use a digital camera to capture the image and either a photographic silver halide element, an ink jet receiver, or a thermal print medium as the output hard copy medium, as taught by Gilman. The suggestion for doing so would have been that a digital camera is a common device for capturing images and photographic silver halide elements, ink jet receivers, and thermal print media are common media upon which

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hard copies of images can be printed. Therefore, it would have been obvious to combine Gilman with Stokes in view of Shalit and Beretta to obtain the invention as specified in claim 5.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is 571-272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James A. Thompson

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Examiner

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31 January 2006